

Notice of Allowability

Application No.

09/910,046

Applicant(s)

AOSHIMA, CHIKARA

Examiner

Art Unit

Pedro J. Cuevas

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to IDS filed on September 4, 2003.
2. ☒ The allowed claim(s) is/are 1-18 and 26.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____. |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>9/03</u> . | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other _____. |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on September 4, 2003 was filed after the mailing date of the Notice of Allowance on May 30, 2003. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Allowable Subject Matter

2. Claims 1-18, and 26 are allowed.
3. The following is an examiner's statement of reasons for allowance.

Aoshima et al. clearly teaches the construction of motor comprising:

a cylindrical magnet of which outer circumferential surface is divided into portions in a circumferential direction, which are alternately magnetized to different poles;

first outer magnetic pole portions which are formed by gapping part of a cylinder from a distal end in an axial direction of said motor and oppose the outer circumferential surface of said magnet;

second outer magnetic pole portions which are formed by gapping part of a cylinder from a distal end in an axial direction of said motor and oppose the outer circumferential surface of said magnet;

first inner magnetic pole portions opposing an inner circumferential surface of said magnet;

second inner magnetic pole portions opposing the inner circumferential surface of said magnet;

a first coil which is located at a position between said first outer magnetic pole portions and said first inner magnetic pole portions in the axial direction of said magnet and excites said first outer magnetic pole portions; and

a second coil which is located at a position between said second outer magnetic pole portions and said second inner magnetic pole portions on an opposite side to said first coil in the axial direction of said magnet and excites said second outer magnetic pole portions, wherein movement of said magnet in the axial direction of said motor is regulated on an inner surface by said first and second inner magnetic pole portions.

The prior art of record, taken alone or in combination fail to disclose a motor as disclosed on independent claims 1, 8, 10, 14 and 26, having:

an annular member which is in contact with the inner circumferential surface of said magnet and fits with at least said first inner magnetic pole portions or second inner magnetic pole portions (claim 1);

a first annular member which is in contact with the inner circumferential surface of said magnet and fits with said first inner magnetic pole portions, and a second annular member which is in contact with the inner circumferential surface of said magnet and fits with said second inner magnetic pole portions (claim 8);

an annular member which is in contact with the outer circumferential surface of said magnet and fits with at least said first outer magnetic pole portions or second outer magnetic pole portions (claims 10 and 14); and

an outer cylinder having at least an outer magnetic pole portion which is formed by gapping part of said outer cylinder from a distal end in an axial direction of said magnet and opposes the outer surface of said magnet, and said inner cylinder opposes the inner surface of said magnet (claim 26).

Dependent claims 2-7, 9, 11-13, and 15-18 are considered allowable by their respective dependence on allowed independent claims 1, 8, 10, and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas
October 29, 2003


BURTON S. MULLINS
PRIMARY EXAMINER